

Title (en)
FUNCTIONAL ADZUKI BEAN-DERIVED COMPOSITIONS

Title (de)
FUNKTIONELLE ZUSAMMENSETZUNGEN AUS AZUKIBOHNEN

Title (fr)
COMPOSITIONS FONCTIONNELLES DÉRIVÉES DE HARICOT ADZUKI

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Application
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Abstract (en)
[origin: WO2017143301A1] Provided herein are methods for producing an adzuki bean protein isolate having high functionality for a broad range of food applications. In some embodiments, the methods for producing the isolate comprise one or more steps selected from: (a) extracting one or more adzuki bean proteins from an adzuki bean protein source in an aqueous solution, for example, at a pH between about 6.5-10.0; (b) purifying protein from the extract using at least one of two methods: (i) precipitating protein from the extract at a pH near the isoelectric point of a globulin-rich fraction, for example a pH between about 5.0-6.0; and/or (ii) fractionating and concentrating protein from the extract using filtration such as microfiltration, ultrafiltration or ion-exchange chromatography; and (c) recovering purified protein isolate.

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